



IFW

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

David John GRAINGER et al

Serial No.: 10/581274

Filed: June 1, 2006

For: ANTI-INFLAMMATORY AGENTS

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

As a means of complying with the duty of disclosure under 37 CFR §1.56, and in accordance with 37 CFR §§1.97 and 1.98, Applicant(s), through the undersigned attorney, submits this Information Disclosure Statement. The patents, publications or other information submitted herewith are listed on the attached Form PTO-1449 and copies are attached excluding U.S. patents and publications.

Documents AC, AD, AF, AH, AI, AN-AP, AT and AU listed on the attached Form PTO-1449 were cited in the International Search Report. A copy of the ISR is attached.

Documents AA, AB, AE, AG, AJ-AM, AQ-AT, AV and AW listed on the attached Form PTO-1449 were cited in a corresponding British Search Report issued in a counterpart British application. A copy of the British Search Report is enclosed.

Documents AV and AX-AZ are discussed in the instant specification.

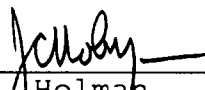
In accordance with 37 CFR §1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits of the above-identified application.

Should any additional fee be required by the filing of this statement, please charge such fee to Deposit Account No. 06-1358.

Respectfully submitted,

JACOBSON HOLMAN PLLC

By:



John C. Holman
Registration No. 22,769
400 Seventh Street, N.W.
Washington, DC 20004-2218
(202) 638-6666

Atty. Dkt. No.: P71304US0
Date: January 3, 2007

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/55 A61P29/00 A61P25/28 A61P37/00 A61P19/10 C07D223/10		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, EMBASE, CHEM ABS Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DAVIDSON BRADLEY S ET AL: "Isolation and synthesis of caprolactins A and B, new caprolactams from a marine bacterium" TETRAHEDRON, vol. 49, no. 30, 1993, pages 6569-6574, XP002320426 ISSN: 0040-4020 abstract page 6569, paragraph 1 page 6571, last paragraph ----- -/--	1-6,8, 19-22
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search 9 March 2005		Date of mailing of the international search report 22. 06. 2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Langer, O

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SEIFFERT D ET AL: "Presenilin-1 and -2 are molecular targets for gamma-secretase inhibitors." THE JOURNAL OF BIOLOGICAL CHEMISTRY. 3 NOV 2000, vol. 275, no. 44, 3 November 2000 (2000-11-03), pages 34086-34091, XP002320427 ISSN: 0021-9258 scheme 1 on page 34087	5,6,8, 10,11, 21,22
X	----- WO 98/07694 A (NOVARTIS AG; GERSPACHER, MARC; VON SPRECHER, ANDREAS; MAH, ROBERT; ROG) 26 February 1998 (1998-02-26) page 1 - page 3, paragraph 3 page 3, paragraph 5 - page 5, paragraph 3 claims 1-14	1
X	----- EP 1 008 346 A (SUNTORY LIMITED; DAIICHI SUNTORY PHARMA CO., LTD) 14 June 2000 (2000-06-14) paragraph [0022] paragraph [0024] - paragraph [0028] page 58 paragraph [0200]	1
X	----- US 5 852 007 A (CHATTERJEE ET AL) 22 December 1998 (1998-12-22) column 64; example 108	1
X	----- US 5 821 231 A (ARRHENIUS ET AL) 13 October 1998 (1998-10-13) table 1 claims 20-25	1
X	----- WO 01/68655 A (ARIAD PHARMACEUTICALS, INC; DEPREZ, PIERRE; LESUISSE, DOMINIQUE; BENAR) 20 September 2001 (2001-09-20) page 11, line 5 - line 19 claims 13,24 claims 18-20	1
X	----- EP 0 351 856 A (TAKEDA CHEMICAL INDUSTRIES, LTD) 24 January 1990 (1990-01-24) Chart II on page 7	5,8,10, 11,21,22
A	----- WO 98/17680 A (ZENECA LIMITED; LUKE, RICHARD, WILLIAM, ARTHUR; COTTON, RONALD) 30 April 1998 (1998-04-30) claims 1,8,11-13	1-24,26
A	----- US 6 344 450 B1 (BISACCHI GREGORY S ET AL) 5 February 2002 (2002-02-05) Chart II on page 7 the whole document	1-24,26

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005030

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9807694	A	26-02-1998	AT 224875 T 15-10-2002
			AU 721850 B2 13-07-2000
			AU 4299397 A 06-03-1998
			BR 9711350 A 17-08-1999
			CA 2264065 A1 26-02-1998
			CN 1233238 A ,C 27-10-1999
			CZ 9900581 A3 16-06-1999
			DE 69715886 D1 31-10-2002
			DE 69715886 T2 15-05-2003
			DK 923550 T3 06-01-2003
			WO 9807694 A1 26-02-1998
			EP 0923550 A1 23-06-1999
			ES 2184083 T3 01-04-2003
			HK 1021372 A1 20-06-2003
			HU 0001165 A2 28-11-2000
			ID 18059 A 26-02-1998
			IL 128631 A 12-09-2002
			JP 2001503387 T 13-03-2001
			NO 990786 A 25-03-1999
			NZ 334736 A 29-09-2000
			PL 331740 A1 02-08-1999
			PT 923550 T 31-01-2003
			RU 2185375 C2 20-07-2002
			SI 923550 T1 28-02-2003
			SK 22199 A3 14-02-2000
			TR 9900363 T2 21-04-1999
			TW 438777 B 07-06-2001
			US 6319917 B1 20-11-2001
			ZA 9707493 A 03-08-1998
EP 1008346	A	14-06-2000	AU 2854399 A 18-10-1999
			AU 2003244564 A1 02-10-2003
			CA 2290630 A1 30-09-1999
			EP 1008346 A1 14-06-2000
			HU 0003274 A2 28-05-2001
			CN 1262618 A ,C 09-08-2000
			WO 9948491 A1 30-09-1999
			US 2004030129 A1 12-02-2004
US 5852007	A	22-12-1998	AU 714324 B2 06-01-2000
			AU 1025397 A 03-07-1997
			CA 2238175 A1 19-06-1997
			EP 0910564 A1 28-04-1999
			JP 2002515860 T 28-05-2002
			WO 9721690 A1 19-06-1997
US 5821231	A	13-10-1998	CA 2177840 A1 15-06-1995
			CN 1142832 A 12-02-1997
			JP 9509146 T 16-09-1997
			NZ 277206 A 24-11-1997
			US 5770573 A 23-06-1998
			US 5936065 A 10-08-1999
			US 6117840 A 12-09-2000
			AU 693143 B2 25-06-1998
			AU 1215695 A 27-06-1995
			EP 0737204 A1 16-10-1996
			WO 9515973 A1 15-06-1995
			US 5688913 A 18-11-1997

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005030

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5821231	A	US 6103870 A	15-08-2000
WO 0168655	A	20-09-2001	AU 4360101 A
		WO 0168655 A2	24-09-2001
EP 0351856	A	24-01-1990	AT 184610 T
		AU 610739 B2	15-10-1999
		AU 3886289 A	23-05-1991
		CA 1336431 C	25-01-1990
		DE 68929074 D1	25-07-1995
		DE 68929074 T2	21-10-1999
		DK 362889 A	05-01-2000
		EP 0351856 A2	23-01-1990
		IL 91063 A	24-01-1990
		JP 3047188 A	29-12-1994
		JP 3054738 B2	28-02-1991
		KR 9711396 B1	19-06-2000
		NZ 230042 A	10-07-1997
		US 4956360 A	26-10-1990
		US 5118806 A	11-09-1990
		US 5300639 A	02-06-1992
		ZA 8905582 A	05-04-1994
			27-03-1991
WO 9817680	A	30-04-1998	AT 256145 T
		AU 4633097 A	15-12-2003
		DE 69726743 D1	15-05-1998
		DE 69726743 T2	22-01-2004
		EP 0932618 A1	14-10-2004
		WO 9817680 A1	04-08-1999
		JP 2001508036 T	30-04-1998
		TW 492868 B	19-06-2001
		US 6207644 B1	01-07-2002
		ZA 9709338 A	27-03-2001
			20-04-1998
US 6344450	B1	05-02-2002	AU 8064201 A
		CA 2418995 A1	18-02-2002
		EP 1309609 A2	14-02-2002
		HU 0303662 A2	14-05-2003
		JP 2004521071 T	01-03-2004
		WO 0212196 A2	15-07-2004
		AU 756174 B2	14-02-2002
		AU 2630000 A	09-01-2003
		CA 2361919 A1	29-08-2000
		EP 1175405 A1	17-08-2000
		JP 2002536437 T	30-01-2002
		WO 0047563 A1	29-10-2002
			17-08-2000



INVESTOR IN PEOPLE

Application No: GB 0327775.3
Claims searched: 1-14

Examiner: Dr Annabel Ovens
Date of search: 15 March 2004

Patents Act 1977 : Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	5 at least	Research Communications in Psychology, Psychiatry and Behavior Vol. 17, Nos. 3 & 4, 1992, Benjamin Weiss et al., "Effects of various amides on a rat brain puromycin-sensitive aminopeptidase and on induced convulsions in mice", pages 153-159, especially 3-Hexanamido-CAP, 3-Dodecanoamido-CAP and N-(n-Octyl)-ureido-N'-CAP in Table I at page 157 (see also CAPLUS Abstract Accession No. 1994:95413)
X	5 at least	JP 2003145933 A (RICOH CO.) 21.05.2203 (see also CAPLUS Abstract Accession No. 2003:386547)
X	5 at least	US 6506782 B (THORSETT ET AL.) see starting material of general procedure 5-A at column 139 and also CAPLUS Abstract Accession No. 2003:35360
X	5 at least	Journal of Bacteriology Vol. 178, No. 10, 1996, Amy L Schaefer et al., "Quorum sensing in <i>Vibrio fischeri</i> : probing autoinducer-LuxR interactions with autoinducer analogs", pages 2897-2901, especially compound W at page 2898 (see also CAPLUS Abstract Accession No. 1996:295790)
X	5 at least	US 5430022 (HEMMI ET AL.) see preparation 33-13 at column 46 and preparation 34-18 at columns 47-48 and also CAPLUS Abstract Accession No. 1994:410003
X	5 at least	JP 030206042 A (TAKEDA CHEMICAL INDUSTRIES) 09.09.1991 (see also CAPLUS Abstract Accession No. 1992:83664)
X	5 at least	US 3646153 (OXENRIDER ET AL.) see Example 10 and also CAPLUS Abstract Accession No. 1971:437790
X	6 at least	US 6297233 B (STEIN ET AL.) see starting material in Example 13 at column 31 and also CAPLUS Abstract Accession No. 2000:573666
X	5 at least	WO 97/16410 A (MERCK AND CO) see compound 5 at page 13 and Example 5 at pages 29-30 and also CAPLUS Abstract Accession No. 1997:390706



INVESTOR IN PEOPLE

Application No: GB 0327775.3

Claims searched: 1-14

Examiner: Dr Annabel Ovens

Date of search: 15 March 2004

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	5 at least	Tetrahedron Vol. 49, No. 30, 1993, Bradley S Davidson and Robert W Schumacher, "Isolation and synthesis of caprolactins A and B, new caprolactams from a marine bacterium", pages 6569-6574, especially compounds 1 and 2 at page 6569 (see also CAPLUS Abstract Accession No. 1993:666057)
X	5 at least	JP 100265761 A (JSR CO.) 06.10.1998 (see also CAPLUS Abstract Accession No. 1998:650488)

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^w:

--

Worldwide search of patent documents classified in the following areas of the IPC⁷:

--

The following online and other databases have been used in the preparation of this search report:

CAS-ONLINE

**JACOBSON HOLMAN PLLC**400 SEVENTH STREET, N.W.
WASHINGTON, D.C. 20004-2201

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: P71304US0 GROUP ART UNIT: _____
 SERIAL NO.: 10/581274 FILING DATE: June 1, 2006
 APPLICANT(S): GRAINGER et al TODAY'S DATE: January 3, 2007

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE (If Appropriate)
<u>/Z.V./</u>	AA 3646153	02/29/72	Oxenrider et al	260	78	
	AB 5430022	07/04/95	Hemmi et al	514	18	
	AC 5821231	10/13/98	Arrhenius et al	514	18	
	AD 5852007	12/22/98	Chatterjee	514	183	
	AE 6297333	10/02/01	Stein et al	514	212	
	AF 6344450	02/05/02	Bisacchi et al	514	212	
	AG 6506782	01/14/03	Thorsett et al	514	364	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES) (NO)
<u>/Z.V./</u>	AH 0351856	01/24/90	Europe			
	AI 1008346	06/14/00	Europe			
	AJ 3-206042	09/09/91	Japan			XX
	AK 10-265761	10/06/98	Japan			XX
	AL 2003-145933	05/21/03	Japan			XX
	AM WO97/16410	05/09/97	WIPO			
	AN WO98/07694	02/26/98	WIPO			
	AO WO98/17680	04/30/98	WIPO			
	AP WO01/68655	09/20/01	WIPO			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>/Z.V./</u>	AQ	CAPLUS Abstract Accession No. 2003:386547 (corresponding to JP 03-145933)
	AR	CAPLUS Abstract Accession No. 1992:83664 (corresponding to JP 03-206042)
	AS	CAPLUS Abstract Accession No. 1998:650488 (corresponding to JP 10-265761)
	AT	Davidson et al, TETRAHEDRON, Vol49, No 30, pgs. 6569-6574, 1993, Isolation and Synthesis of Caprolactins A and B, New...
	AU	Seiffert et al, THE JOUR OF BIOL CHEM, Vol 275, No 44, 11/3/00, pgs. 34086-34091, Presenilin-1 and -2 Are Molecular Targets...
	AV	Weiss et al, RESEARCH COMM IN PSYCHOLOGY, Vol 17, Nos 3&4, 1992, pgs. 153-159, Effects of Various Amides on a Rat Brain...
	AW	Schaefer et al, JOUR OF BACTERIOLOGY, May 1996, pgs. 2897-2901, Quorum Sensing in Vibrio fischeri: Probing Autoinducer-LuxR...
	AX	Grainger et al, BIOCHEMICAL PHARMACOLOGY 65, 2003, pgs. 1027-1034, Broad-spectrum chemokine inhibitors (BSCIs) and their...
	AY	Reckless et al, BIOCHEM J 340, 1999, pgs. 803-811, Identification of oligopeptide sequences with inhibit migration induced by a ...
	AZ	Fox et al, J MED CHEM 45, 2002, pgs. 360-370, Design, Synthesis, and Preliminary Pharmacological Evaluation of N-Acyl-3-...

EXAMINER

/Zohreh Vakili/

DATE CONSIDERED

06/20/2010

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).